HTIRC-03-008

January 22, 2004

Commissioner for Patents P.O.Box 1450

Alexandria, VA 22313-1450

Fr: George O. Saile, Reg. No. 19,572

28 Davis Avenue

Poughkeepsie, N.Y. 12603

Subject:

| Serial No. 10/706,838 11/12/03 |

Jei-Wei Chang et al.

NARROW TRACK CPP HEAD WITH BIAS

CANCELLATION

INFORMATION DISCLOSURE STATEMENT

Enclosed is Form PTO-1449, Information Disclosure Citation In An Application.

The following Patents and/or Publications are submitted to comply with the duty of disclosure under CFR 1.97-1.99 and 37 CFR 1.56.

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on January 77, 2004.

Stephen B. Ackerman, Reg.# 37761

Signature/Date

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- U.S. Patent 6,002,553 to Stearns et al., "Giant Magnetoresistive Sensor," disclose a sensor formed of alternating magnetic and non-magnetic materials.
- U.S. Patent 6,597,546 to Gill, "Tunnel Junction Sensor with an Antiferromagnetic (AFM) Coupled Flux Giude," describes a tunnel junction sensor with AFM coupled flux guide.
- U.S. Patent 6,577,124 to Coehoorn et al., "Magnetic Field Sensor with Perpendicular Axis Sensitivity, Comprising a Giant Magnetoresistance Material or a Spin Tunnel Junction," discloses a sensor having FM layers with different uniaxial anisotropies.
- U.S. Patent 6,529,353 to Shimazawa, "Magnetoresistive
 Tunnel Junction Element with Bias Magnetic Field Applying
 Layer," discloses a hard magnet used to apply bias to a sensor.
- U.S. Patent 5,739,987 to Yuan et al., "Magnetoresistive Read Transducers with Multiple Longitudinal Stabilization Layers," discloses AFM layers providing transverse biasing to a sensor.

Sincerely,

Stephen B. Ackerman, Reg. No. 37761 Form PTO-1449 Doctor Humber (Coocnes) NFORMATION DISCLOSURE CITATION IN AN APPLICATION Flang Doss 2 9 2004 8 (Use several shouts if necessary) U. S. PATENT DOCUMENTS ያፕגው ውሥሀለ እፕኒመቀዕክትላእ ች DOCUMENT HUMBER DATE KULE CLASS BUSCUES Stearns 360 360 324 252 360 324.2 360 113 FOREIGN PATENT DOCUMENTS Translation DOCUMENT NUMBER OATE COUNTRY cuss SUBCLASS YES NO OTHER DOCUMENTS (Including Author, Thue, Date, Portliner Pages, Etc.) DIAMMER DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.